

MODULARIS Uro Plus

SP

MODULARIS Uro

Installation and Setting Instructions

Conversion to large wheels

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English

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Important information about start-up

CAUTION

- When performing service work and tests, adhere to the product-specific safety information in the documents, as well as the general safety information contained in the ARTD, Part 2.

The measuring results of the measurements marked with " \ll " must be entered in the test certificates or the image quality measuring certificate in each case.

Scope of applicability and regulations for the subsidiaries

Equivalent leakage current measurement

The equivalent leakage current must be measured where applicable under the requirements of DIN VDE 0751, Part 1.

Where DIN VDE 0751 does not apply, the subsidiaries should comply with the following regulations (refer to ARTD - 002.731.17, as well as the safety technical regulations for installation and maintenance).

The local national regulations apply primarily for the subsidiaries.

In the event that there are no existing local regulations, the following provisions should be adhered to in the interest of the safety of customers, patients, employees and third parties as well as the company.

Initial measured value

The equivalent leakage current measurement was performed at the factory and the value measured was entered in test protocol 1. The measurement was made at the line voltage and line frequency indicated in test protocol 1.

If the line voltage or the line frequency on-site deviates from the information indicated upon delivery of the Modularis Uro Plus, the values given are invalid. The values should be marked invalid (crossed out with the comment "invalid values" and the service engineer should sign and date this copy).

In this case, the equivalent leakage current must be measured again. The value may not exceed 1 mA according to DIN VDE 0751, Part 1.

The initial value measured must be documented.

Repeat measurements

When service or repair work is performed on the primary power supply circuit (e.g. repairs to the power-on circuit), the equivalent leakage current test must be repeated. The values measured in the subsequent test may not exceed the threshold value of 1 mA as specified in VDE 0751, Part 1. In addition, they may not exceed the initial measured value by more than 50%. If the value exceeds this threshold, the system must be repaired. The value measured must be documented.

Auxiliary devices and documents required

- MODULARIS Uro Service Instructions SPL1-130.061.02


Tools and measurement devices required

- Standard service equipment
- Protective conductor meter 44 15 899 RV090
- Digital voltmeter, e.g. DVM FLUKE 8060A 97 02 101 Y4290
- Wooden beam 50 cm long, 10 cm high, 10 cm wide
- Loctite 221

Safety information

- Observe the protective measures described in the system manual:

CAUTION

- **When performing service work and tests, adhere to:**
 - the product-specific safety information in the documents, as well as the general safety information contained in the ARTD, Part 2.
- **Disconnect the power cable when working on the system.**
- **When working with the power on, observe the general safety regulations.**
- **Observe ESD guidelines.**
- **Switch off the system prior to replacing boards or assemblies.**
- **After completing all service work and reattaching the covers, perform the protective conductor measurement as specified in ARTD-002.731.17.**
- **The protective conductor resistance may not exceed 0.2 ohms.**
- **When servicing the power-on assembly (replacing the power-on assembly or the power cable), the equivalent leakage current must be measured and documented.**
- **Tests and adjustments performed with radiation on are identified by the radiation warning symbol . During these types of adjustments, radiation protection must be worn (refer to ARTD, Part 2).**

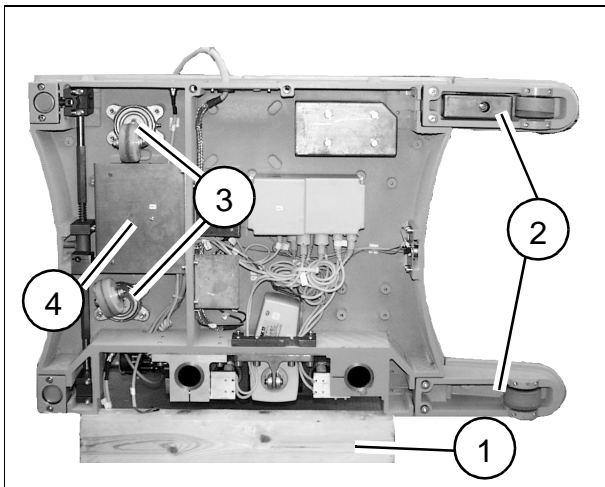


Fig. 1

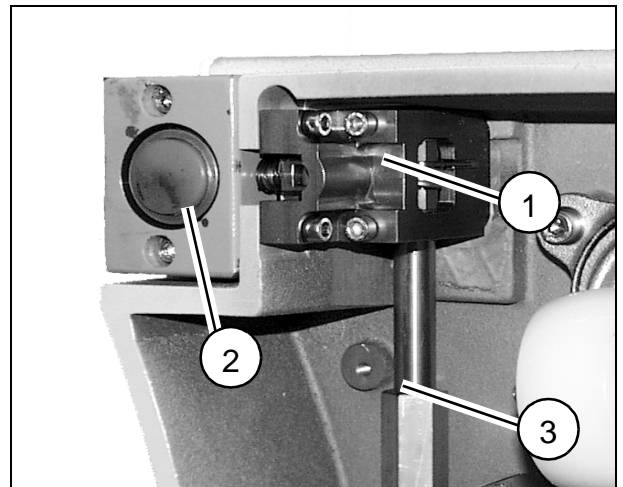


Fig. 2

Checking the conversion kit

Contents:

- 4 castors
- 8 screws M8 x 70 with lock washers
- 2 preassembled stop plates
- 4 screws M6x12 with lock washers
- 1 cover plate for electronics
- 2 screws M8x12 with lock washers
- 1 screw M6x12 with lock washer
- 1 switching cam
- 1 installation instructions
- 1 supplement to the operating instructions

Preparing the underside of the table

- Move the table into a horizontal (0°) position.
- Move the table fully down.
- Move the table longitudinally into its mid-position.
- Move the table transversely the maximum amount in the direction of the operator, i.e. patient entry position.
- Unplug the power cable.
- Protect the accessory rail on the patient entry side against damage.
- Set the foot lever upwards, i.e. the table can be rolled.
- Tilt the table with two persons so that it lies on the accessory rail. (The lifting column lies on the floor)

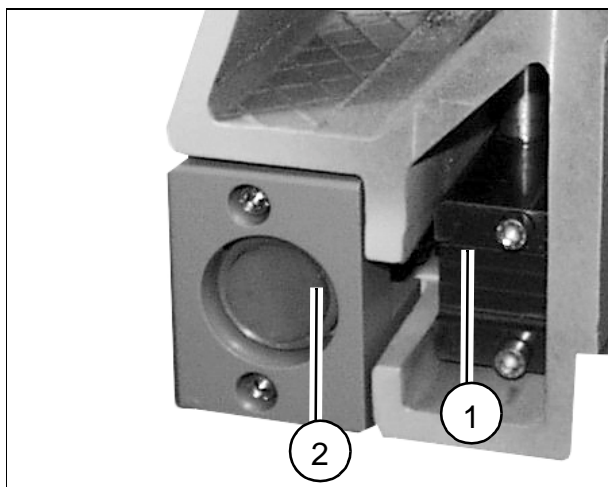


Fig. 3

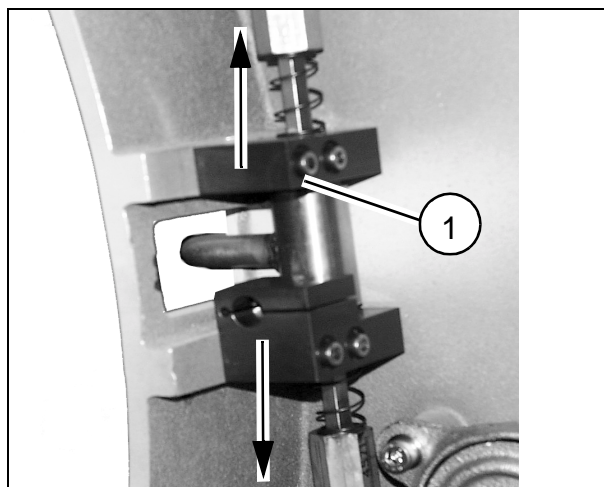


Fig. 4

- Place a wooden beam (50cm long, 10 x10 cm) under the table. Two persons must raise the table briefly for this (1/Fig. 1).
- Unscrew both extension arm feet (2/Fig. 1); the upper one weighs approx. 7.0 kg.
- Unscrew the two rollers (3/Fig. 1). They are no longer required.
- Unscrew the power supply unit Z10 (4/Fig. 1) (3 Allen screws 5mm).
- Unscrew the drive for the leveling unit (1/Fig. 2).
- Unscrew the leveling unit (2/Fig. 2). The floating shaft (3/Fig. 2) must be pushed down to remove it.
- Remove the floating shaft and the spring (3/Fig. 2).
- Unscrew the drive of the lift unit (1/Fig. 3).
- Unscrew the lift unit (2/Fig. 3). The floating shaft (8/Fig. 10) must be pushed upwards to remove it.
- Unscrew the foot lever fastener (1/Fig. 4). After the mounting screws are loosened, the parts must be shifted in the direction of the arrow according to Fig.4.
- Remove the foot lever, it is no longer required.
- Re-install the power supply unit.

Notice:

As from Serial No. 1068 the leveling stamp is replaced by a lift stamp.

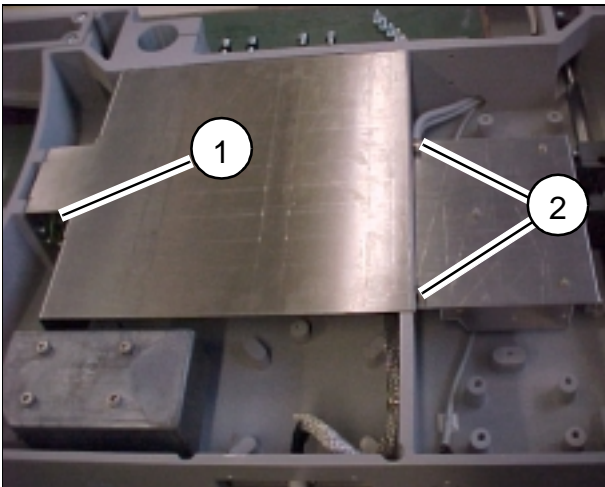


Fig. 5

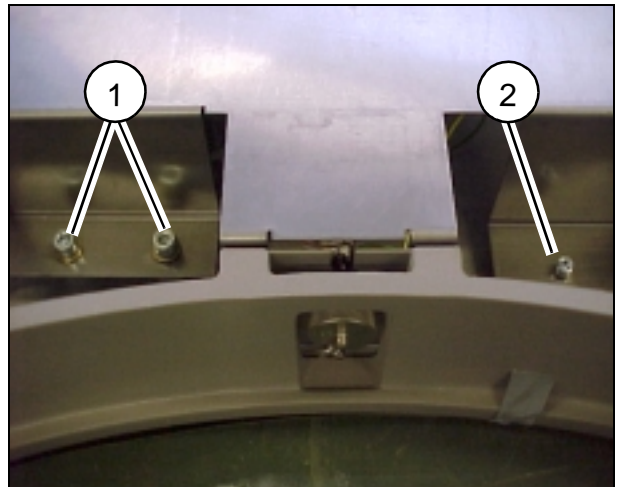


Fig. 6

Electronics unit cover

- Fasten the cover with the existing screws (1/Fig. 5).
- Fasten the cover with the existing screws (2/Fig. 5) of the power supply unit cover.
- Fasten cover with screws M8x12 (1/Fig. 6) and M6x12 (2/Fig. 6).

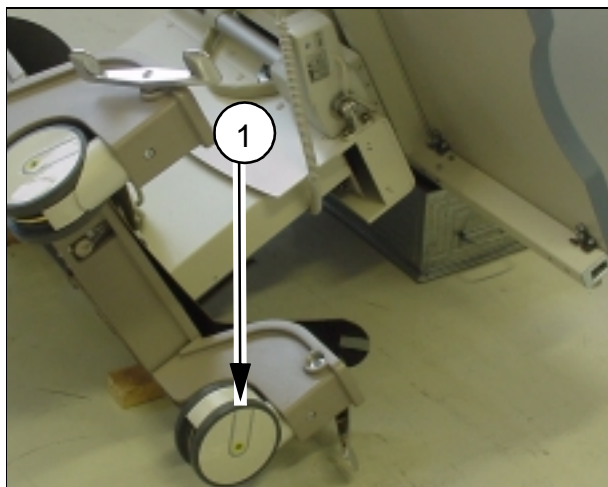


Fig. 7

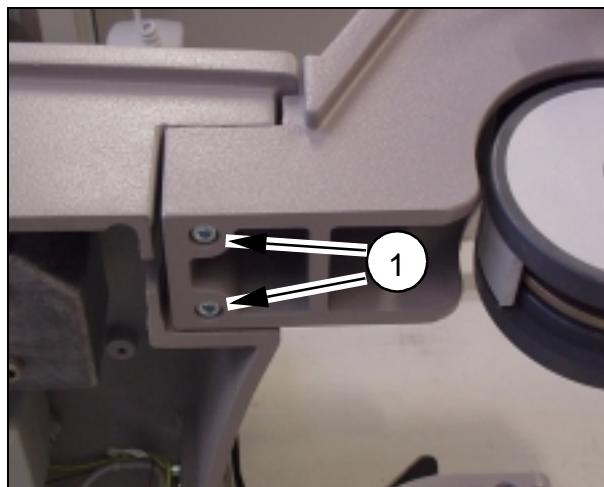


Fig. 8

Attachment of the large castors

As standard the braking levers must be installed on the inside. At the customer's request it is possible to fit the braking levers on the outside (as shown in the picture).

- Fit the 4 castors corresponding to Fig. 8. 2 screws M8 x 70 with lock washers (1/Fig. 8) are required. (Use Loctite 221). Only the new screws supplied may be used.
- Before uprighting the table bring the lower castors into the position shown (1/Fig. 7).
- Block the castors by means of the step lever.
- Upright the table.

Notice:

The braking levers can also be fitted subsequently on the other side without dismantling the extension arms or tilting the unit over.

- Loosen the Allen grub screw on the bottom of the braking lever.
- Remove the braking lever.
- Withdraw the shaft with all attachment parts on the side opposite the braking lever.
- Fit the parts laterally transposed in the reverse order.

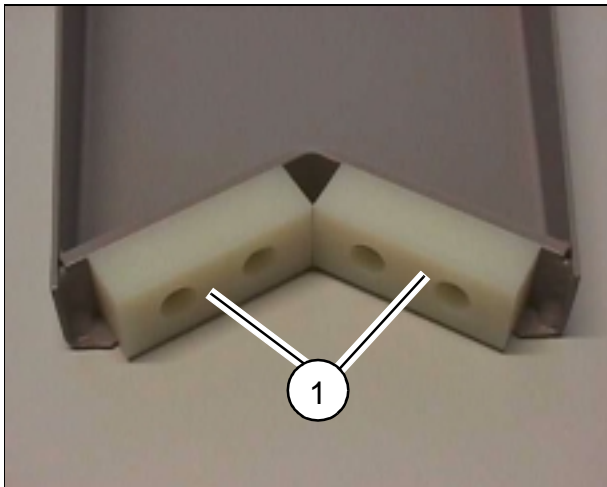


Fig. 9

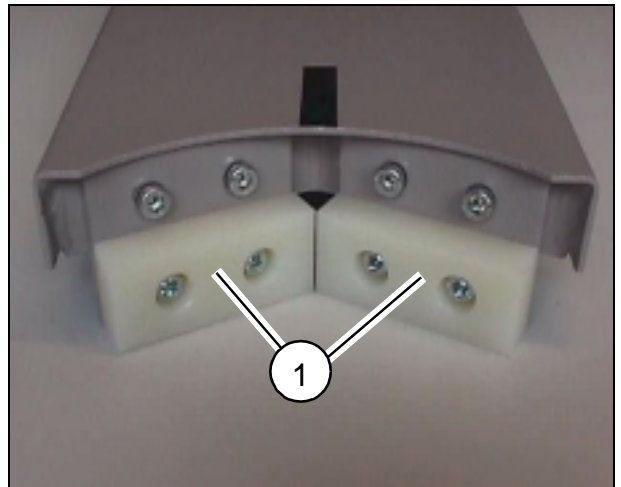


Fig. 10

Installing the stopping aid

Dismantle the two stop plates from the stopping aid (1/ Fig. 9).

Fit the supplied stop plates (1/ Fig. 10) with 2 screws each (M6 x 12) and lock washers according to the picture.

Replacing the lift switching cam

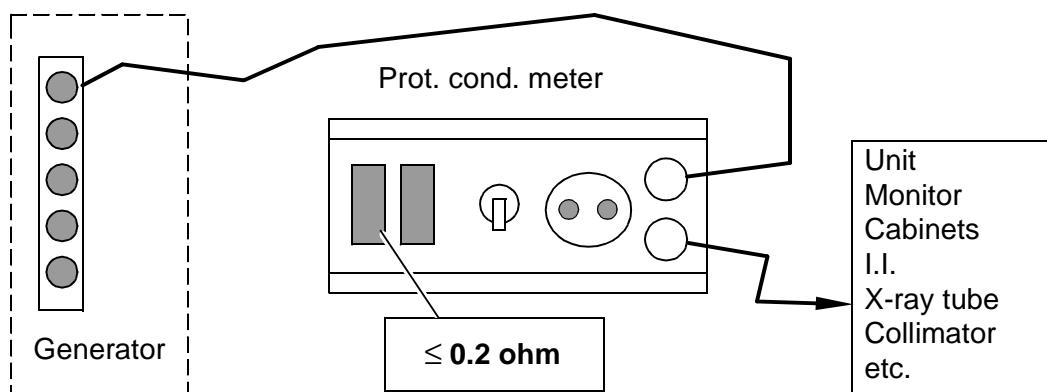
Replace the installed switching cam by the supplied switching cam. Adjustment of the table height is required after replacing the switching cam.

Adjusting the table height

Adjust the table height according to the service instructions
MODULARIS Uro SPL1-130.061.02....

Final work

- File the supplement to the operating instructions in the system manual or hand it over to the customer
- Attach and connect all protective conductors to the covers.
- Measure the protective conductor resistance.



Meas. device: Protective conductor meter

Meas. value: **max. 0.2 ohms** (Comply with country-specific regulations)
(Current 10 A, Voltage drop max. 2 V)

Meas. procedure: Measure between all accessible, conductive parts of the system and the protective conductor rail in the generator.

Conditions: **Protective conductor resistance max. 0.2 ohms**

- If greater, increase the protective conductor diameter
 - Reduce the contact resistance (e.g. tighten the screws)
- Clean the system
Refer to the Operating Instructions for additional information regarding Cleaning/Disinfection.

CAUTION

After completing all adjustment work and control measurements the responsible service engineer must confirm in the measuring certificates with date and signature that all values have been determined and logged correctly.

Chap. 0 Newly issued.

Chap. 1 Newly issued.

Chap. 2 Newly issued

Chap. 3 Newly issued

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